

S/054/63/004/001/017/022
B101/B215

AUTHORS: Belyustin, A. A., Shul'ts, M. M.

TITLE: Electrode behavior of sodium silicate glasses containing oxides of elements of the IV and V main groups of the periodic system

PERIODICAL: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii, no. 1, 1963, 149-155

TEXT: The effect of Fe_2O_3 , GeO_2 , SnO_2 , P_2O_5 , Sb_2O_3 , and Bi_2O_3 on sodium silicate glasses was studied by plotting the curves E versus pH. Results: (1) Fe_2O_3 acts similarly to Al_2O_3 . As little as 0.5 mole% Fe_2O_3 disturbs the H^+ function in the region $pH = 1 - 4$ and shifts the section of the Na^+ function towards more positive values. (2) Up to a content of 7 mole%, GeO_2 affects the curve E versus pH only slightly. Stages characteristic of glass forming oxides are formed in the region $pH = 2-4$, whereas at a content of more than 7 mole% GeO_2 , the region of the H^+ function becomes

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Method for studying the electrode ...

S/054/63/004/001/011/022
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glass electrodes appearing in the same number of this periodical.

SUBMITTED: October 1962

Card 3/3

S/054/63/004/001/011/022

Method for studying the electrode ... B101/B215

The curves E versus pH were plotted and the point b of the beginning H⁺ function, point c of the end of the H⁺ function, and point d_M of the beginning metal function were determined in order to characterize the electrode properties. The equation E = E⁰ + $\frac{RT}{4F} \log (a_{H^+} + K_M)$, where $\beta = 2.5RT/F$, K = equilibrium constant of the ion exchange between glass and solution is of satisfactory validity for a sharp transition from the H⁺ function to the metal function. For three-component glasses,

$\lambda = K'/K'$ was obtained where K' is the exchange constant of the glass containing a second oxide and K' is the exchange constant of the binary glass. The chemical stability was determined by treating the powdered glass (particle size = 80 - 100μ) for 1 hr with water or 0.1 N HCl at 100°C and by determining colorimetrically the components in solution. The chemical stability was characterized by the ratios

$[R_2O]_{sol}/[R_2O]_{glass}$ and $[SiO_2]_{sol}/[SiO_2]_{glass}$. In some cases the stability of the ground glass faces was tested by measuring the loss of weight in g/cm²·hr. These methods have been applied in the papers on Card 2/3

S/054/63/004/001/011/022
B101/B215

AUTHORS: Shul'ts, M. M., Parfenov, A. I., Peshkhanova, N. V.,
Belyustin, A. A.

TITLE: Method for studying the electrode properties and chemical
stability of glasses

PERIODICAL: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii,
no. 1, 1963, 98-104

TEXT: The regularities governing the relation between the electrode
properties of glasses and their chemical composition were studied in
binary alkali silicate glasses such as $\text{Li}_2\text{O} - \text{SiO}_2$ and $\text{Na}_2\text{O} - \text{SiO}_2$, as
well as in three-component glasses which, besides alkali oxide and SiO_2 ,
contained also an element belonging to the groups II, III, IV, or V of
the periodic system, as well as in multicomponent glasses such as
 $\text{Li}_2\text{O} - \text{Cs}_2\text{O} - \text{La}_2\text{O}_3 - \text{SiO}_2$; $\text{Li}_2\text{O} - \text{BaO} - \text{La}_2\text{O}_3 - \text{SiO}_2$; $\text{Na}_2\text{O} - \text{BaO} -$
 $\text{Al}_2\text{O}_3 - \text{SiO}_2$ and others. The production of electrodes in the form of
blown-up glass balls of 8-10mm diameter wall thickness 0.2-0.3mm is described.

Card 1/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204600011-6

NIKOL'SKIY, B.P.; SHUL'TS, M.M.; BELYUSTIN, A.A.

New concepts of the ion exchange theory of glass electrodes. Vest.
LGU 18 no.4:86-93 '63. (MIRA 16:3)
(Electrodes, Glass) (Ion exchange)

NIKOL'SKIY, B.P.; SHUL'TS, M.M.; BELYUSTIN, A.A.

Influence of the nature of the second glass-forming oxide on
the sodium and potassium electrode functions of silicate glasses.
Dokl. AN SSSR 144 no.4:844-848 Je '62. (MIRA 15:5)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova.
2. Chlen-korrespondent AN SSSR (for Nikol'skiy).
(Electrodes, Glass) (Oxides)

SHUL'TS, M.M.; BELYUSTIN, A.A.

Effect of boric anhydride on the electrode behavior of simple sodium silicate glasses. Vest.LGU 17 no.4:135-142 '62. (MIRA 15:3)
(Boron oxide)(Electrodes, Glass)

Electrode properties of...

S/034/62/000/003/006/010
B101/B186

SUBMITTED: November 27, 1961

Fig. 3. Log χ versus $[M_2O_3]/[Na_2O]$. (1) $Na_2O - Al_2O_3 - SiO_2$,
 $[Na_2O] < 25$ mole%; (2) $Na_2O - Al_2O_3 - SiO_2$, $[Na_2O] > 25$ mole%; (3)
 $Na_2O - B_2O_3 - SiO_2$; (4) $Na_2O - Ga_2O_3 - SiO_2$; (5) $Na_2O - In_2O_3 - SiO_2$.

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S/034/62/000/003/006/010
B101/B106

Electrode properties of...

bindings of the hydrogen ions to the SiO_4 and AlO_4 tetrahedrons of the glass structure. Al_2O_3 acts as a typical glass former. The range of the Na^+ function in the χ -versus-pH curve extends with rising Al_2O_3 content. Ga_2O_3 also acts as glass former, but its modifying capacity becomes evident in shifting the transition from the H^+ function to the Na^+ function towards higher pH. It is concluded that gallium enters the glass both as Ga^{IV} (glass former) and as Ga^{VI} (modifier). In_2O_3 acts still less as glass former and shows even more intensive modifier action by a wide range of the H^+ function. Admixture of BaO (modifier) to Na-Al glasses reduces the effect of the second glass former (Al_2O_3), making the χ -versus-pH curves similar to those for Na-In glasses. The difference between glass former and modifier can be seen from $\log \chi = f([\text{M}_2\text{O}] / [\text{Na}_2\text{O}])$, M = B, Al, Ga, In (Fig. 3). A small χ is characteristic of modifiers. There are 4 figures and 2 tables. The most important English-language reference is: G. E. Eisenman, D. O. Rudin, J. M. Casby, Science, 126, 831, 1957.

Card 2/4

5.4700

1111
S/004/62/000/003/003/010
B101/B105AUTHORS: Shul'ts, M. M., Belyustin, A. A.

TITLE: Electrode properties of sodium silicate glasses containing aluminum, gallium, or indium oxides

PERIODICAL: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii,
no. 3, 1962, 116 - 124

TEXT: Different effects of "glass-forming" and "modifying" oxides on the function $E = f(pH)$ have been studied for sodium silicate glasses with 22 mole% Na_2O and with different concentrations of Al_2O_3 , Ga_2O_3 , In_2O_3 , or BaO , by measuring the emf of the element $Ag|AgCl, 0.1\text{ HCl}|glass|$ buffer solution $NaCl|KCl$ solution, saturated, $Hg_2Cl_2|Hg$. The constant $K_{Na} = 0.1\text{ N}$ or 3 N

of the equation $\varphi = \varphi^0 + \log(a_H^+ K_{Na})$ and the value $\chi = K^{NaAl}/K^{Na}$ were determined, where K^{NaAl} is the constant for sodium alumino silicate glass, and K^{Na} the constant for sodium silicate glass. Admixing small amounts of Al_2O_3 gave the curve $E = f(pH)$ a stepwise course due to different

Card 1/4

Effect of boric oxide on the ...

S/054/62/000/001/009/011
B121/B138

the glasses, α_1 and α_2 are constants which correspond to the ratio of dissociation constants of "acid" and "salt" anion groups in the glass. The electrode properties of a glass consisting of two vitrifiers in a certain composition range, depend on the distribution of basic oxide (Na_2O) among the acid oxides (B_2O_3 and SiO_2). There are 3 figures, 1 table, and 17 references: 14 Soviet-bloc and 3 non-Soviet-bloc. The two references to English-language publications read as follows: D. A. Mac Innes, M. Hubbard. J. Amer. Chem. Soc., 52, 29, 1930. G. Rynders, O. Graner, D. Dole. J. Amer. Ceram. Soc., 31, 269, 1948.

SUBMITTED: July 7, 1961

Card 3/3

X

S/054/62/000/001/009/011
B121/B130

Effect of boric oxide on the ...

sodium silicate glasses and are suited for wider pH determinations. The dependence of EMF, measured with a hydrogen - calomel electrode, on the pH of the solution, gives a stepped curve for boron silicate glasses with a B_2O_3 content of up to 7%. The effect of boric oxide on the electrode

properties of the glasses is characteristic of vitrifying oxides. Stepped curves of the EMF - pH dependence of boron silicate glasses have been predicted in theoretical studies by B. P. Nikolskiy in 1953 (Ref. 15: B. P. Nikol'skiy ZhFKh, 27, 724, 1953). B. P. Nikolskiy and M. M. Shul'ts recently suggested the formula for the potential of glass electrodes with two groups of anions:

$$\varphi = \varphi^0 + (1/2) \log(a_{H^+} + K a_{Na^+}) - (1/2) \log \left(\frac{1}{a_{H^+} c_1 K a_{Na^+}} + \frac{\beta}{a_{H^+} c_2 K a_{Na^+}} \right), \quad (1)$$

where φ is the glass electrode potential; φ^0 is the standard potential, a_{H^+} and a_{Na^+} are the ion activities in the solution, N_{H^+} and N_{Na^+} are their concentrations in the glasses,

$$K = \frac{a_{H^+} N_{Na^+}}{a_{Na^+} N_{H^+}}, \quad \beta \text{ is a constant dependent on the number of anion groups in}$$

Card 2/3

5351
S/054/62/000/001/002/011
B121/B138

154170
AUTHORS: Shul'ts, M. M., Polyustin, A. A.
TITLE: Effect of boric oxide on the electrode properties of plain
sodium silicate glasses
PERIODICAL: Leningerad. Universitet. Vestnik. Seriya fiziki i khimii,
no. 1, 1962, 135-142

TEXT: Glasses free from calcium oxide and aluminum oxide were studied. Electrode glasses were produced from chemically pure boric acid, sodium carbonate, and quartz in a silite furnace in platinum crucibles at 1200-1450°C. The electrode properties of the glasses were studied in buffer mixture solutions of 0.1-3.0 N sodium chloride. Hydrogen and calomel electrodes were used for pH measurements. The EMF was measured in PPTV-1 (PPTV-1) potentiometer by the compensation method. Each experiment lasted 10-14 hrs. The EMF values measured with the glass - calomel electrode were represented by the curve E versus pH. B_2O_3 additions to sodium silicate glasses were found to affect their hydrogen function in the low pH region. Glasses with higher B_2O_3 content behave like plain

Card 1/3

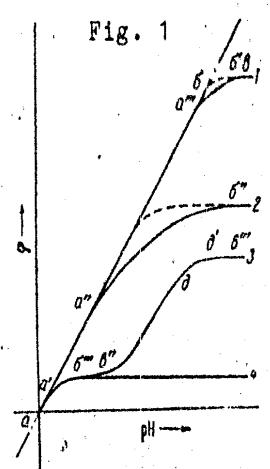
Particular electrode...

S/020/61/140/003/018/020
B110/B101

SUBMITTED: May 22, 1961

Fig. 1. Diagram of the electrode behavior of different glasses.

Legend: (1) Binary alkali-silicate glasses and glasses containing modifying ions; (2) complex glasses with glass-formers and modifiers; (3) simple glasses containing small quantities of a second glass-former; (4) glasses containing relatively large quantities of a second glass-former. The dotted sections of curves 1, 2 correspond to Eq. (3).



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28736 S/020/61/140/003/018/020
Particular electrode...
B110/B101

- B_2O_3 , Ga_2O_3 , ZnO_2 ; $Na_2O - R_{n,m}O - SiO_2$ ($R_{n,m}O = Al_2O_3$, Ga_2O_3 , Fe_2O_3 , GeO_2 , SnO_2 , TiO_2 , ZrO_2 , P_2O_5 , Sb_2O_3 , Bi_2O_3). The second hydrogen range due to the weaker acid disappears with a pH of 0 - 14, when relatively large amounts (3 - 9%) of Al_2O_3 , Fe_2O_3 , B_2O_3 , and ZrO_2 are added (curve 4, Fig. 1). Thus, alkali-metals are bound in complex silicate systems by Al_2O_3 , B_2O_3 , and similar oxides. The established "differentiating effect" of a small quantity of acid oxide in glasses of simple composition is common to all glass-forming oxides and confirms the assumed binding and coordination of atoms of glass-forming elements according to M. M. Shul'ts (Ref. 18: Vestn. LGU, No. 22, 40 (1960)) and (Ref. 19: Stekloobraznoye sostoyaniye (the vitreous state), Izd. AN SSSR, 1960). There are 3 figures and 19 references: 15 Soviet-bloc and 4 non-Soviet-bloc. The most recent reference to the English-language publication reads as follows: Ref. 11: G. Eisenmann, D. O. Rudin, J. U. Casby, Sci., 126, 831 (1957).

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova
(Leningrad State University imeni A. A. Zhdanov)

Card 3/4

Particular electrode...

28736S/020/61/140/003/018/020
B110/B101

presence of hydrogen ions bound differently strong to the glass. When adding B_2O_3 or Al_2O_3 , one obtains a glass electrode with metal function (curve 4). B and Al free glasses correspond to weak acids ($K \sim 10^{-12}$, curve 1). Curves 2 and 4 correspond to $Na_2O-CaO-SiO_2$ systems with additions of Al_2O_3 , B_2O_3 , and ZrO_2 . In the section aa' (curve 3), the hydrogen ions are bound to the anions of strong and weak acids in glass phase. In the section a'δ'''δ'', the hydrogen ions are replaced by weakly bound alkali-metal ions. These are bound stronger in section δ''δ. The metal function is complete in δ'δ''. This has been established experimentally in the ternary system $Li_2O-Al_2O_3-SiO_2$ with 0 - 3 mole% of Al_2O_3 . Similar to Al_2O_3 , B_2O_3 effects a differentiation in the system $Na_2O-B_2O_3-SiO_2$ at 0.1 N and 3 N Na-ion concentrations of the solution. With the curves representing the pH dependence of the potential, the vertical distance between the sections of the Na functions for glasses containing 6.6 and 9.4 mole% of B_2O_3 is: $\Delta E = \frac{F}{2} \log \left(\frac{a''_{NaCl}}{a'_{NaCl}} \right) = 83$ mv. Similar conditions were found for the following systems: $Li_2O - R_nO_m - SiO_2$ (R_nO_m)

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54700

28736 S/020/61/140/003/018/020
B110/B101

AUTHORS: Nikol'skiy, B. P., Corresponding Member AS USSR, Shul'ts, M. M., Peshekhonova, N. V., and Belyustin, A. A.

TITLE: Particular electrode behavior of glasses containing two acid (glass-forming) oxides

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no. 3, 1961, 641 - 643

TEXT: Electrodes of alkali glasses with basic oxides (modifiers): Cs_2O , CaO , BaO , La_2O_3 , etc. have hydrogen function in a large pH interval: $\varphi = \varphi^0 + \frac{F}{2} \log_{\text{H}^+}$ (1); ($F = (RT/F) \cdot 2.303$). By ion exchange: $\text{H}^+(\text{glass}) + \text{M}^+(\text{solution}) \rightleftharpoons \text{H}^+(\text{solution}) + \text{M}^+(\text{glass})$ (2), the hydrogen function changes to the metal function at certain pH's (section a"'g' of the curve 1, Fig. 1). According to the ion exchange theory, curve 1 is described by $\varphi = \varphi^0 + \frac{F}{2} \log(a_{\text{H}^+} + K a_{\text{M}^+})$ (3), where K is the equilibrium constant of Eq. (2). The divergence from Eq. (3) observed in the a"'g' section, specifically when B_2O_3 is introduced (curve 2), is explained by the

Card 1/4

MATEROVA, Ye.A.; MOISEYEV, V.V.; EELYUSTIN, A.A.

Comparative study of the electrode and exchange properties of the glass electrode by use of radioactive tracers. Part 2: Behavior of the potassium glass electrode in alkali metal salt solutions. Zhur.fiz. khim. 35 no.6:1258-1264 Je '61. (MIRA 14:7)

1. Leningradskiy gosudarstvennyy universitet imeni A.A.Zhdanova.
(Electrodes, Glass) (Alkali metal salts)

BELYOSTCH, H.A.

AUTHOR:

MOISEYEV, V.V., MATEROVA, E.A., BELUSTIN, A.A.

PA - 2763

TITLE:

The Production of Rubidium and Cesium Glasses and Investigation of Some of their Properties. (Polucheniye i issledovaniye nekotorykh svoystv rubidiyevykh i tsasziyevykh stekol, Russian)
Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 4, pp 824-827 (U.S.S.R.)

Reviewed: 7 / 1957

PERIODICAL:

Received: 6 / 1957

ABSTRACT:

The study of composed silicate glasses in which the only alkaline component is rubidium or cesium makes it possible to acquire new knowledge concerning the influence exercised by alkaline ions on the properties of glass, which is of importance for the production of glass electrodes. Above all, the interaction between glass and solution can be studied. This interaction leads to the potential difference between glass and the solution. The production of rubidium and cesium glass is difficult because these systems are difficult to melt (1600 - 1650°C). In electrode glass with hydrogen function sometimes small additions of these metals are used (2-3%), as they prevent sodium ions from penetrating into the glass, by which the alkaline error of the glass electrode is diminished. After initial difficulties the authors were able to melt 2 types of rubidium glass, the data of which are given in form of a table. However, they were still very viscous. Synthesis was finally carried out of rubidium and cesium glass: 50% SiO₂, 20% B₂O₃, 15% R₂O.

C Card 1/2

BELYUSENKO, A. I.

Curved discharge guides for self-dumping cages. Ugol' 34
no. 4:39-40 Ap '59. (MIRA 12:7)
(Hoisting machinery)

SOV/J21-58-9-9/21
The Profile Correction of Broaches for the Cutting of Involute Splines

component but not in designing the tool correction. Shop tests have shown low forces and the absence of sticking. There are 8 figures.

Card 2/2

AUTHOR: Belyura, P.G.

SOV/121-58-9-9/21

TITLE: The Profile Correction of Broaches for the Cutting of Involute Splines (Korrigirovaniye profilya protyazhek dlya obrabotki evolventnykh slitsev)

PERIODICAL: Stanki i Instrument, 1958, Nr 9, pp 29 ~ 31 (USSR)

ABSTRACT: A method for correcting internal involute spline broaches is presented after some propositions of involute trigonometry. The co-ordinates of the involute profile points and of the centres of tangential circles are found analytically, using the involute function. Figure 4 shows the positions of the separate broach teeth designed to avoid sticking. The correction is accomplished by raising the last cutting tooth relative to the first. This rise is called the broach correction. A geometric construction for the corrected tooth profile is given in Figure 5, and its inspection by means of rollers is shown in Figure 6. A correction geometry as proposed in the paper is characterised by a set of formulae from which the measurements of the broach across rollers after correction and before correction are compared. It is stated that the method presented for designing broaches is laborious only in profiling the

Card1/2

VYSHELESSKIY, A.N.; SHMUEL'SON, I.E.; LITVINA, L.S.; DRUSKIN, L.I.; BELYUNOVA,
V.S.

New gas heating equipment for public eating establishments. Gaz.
prom. 7 no.5:46-50 '62. (MIRA 17:11)

BELYUNOVA, V.S., CHERNYSHEVA, I.G., YURLOVA, M.A.

Gas appliances for district and domestic use changed-over to
operate compressed gas. Gaz.prom. 5 no.2:24-28 F '60.

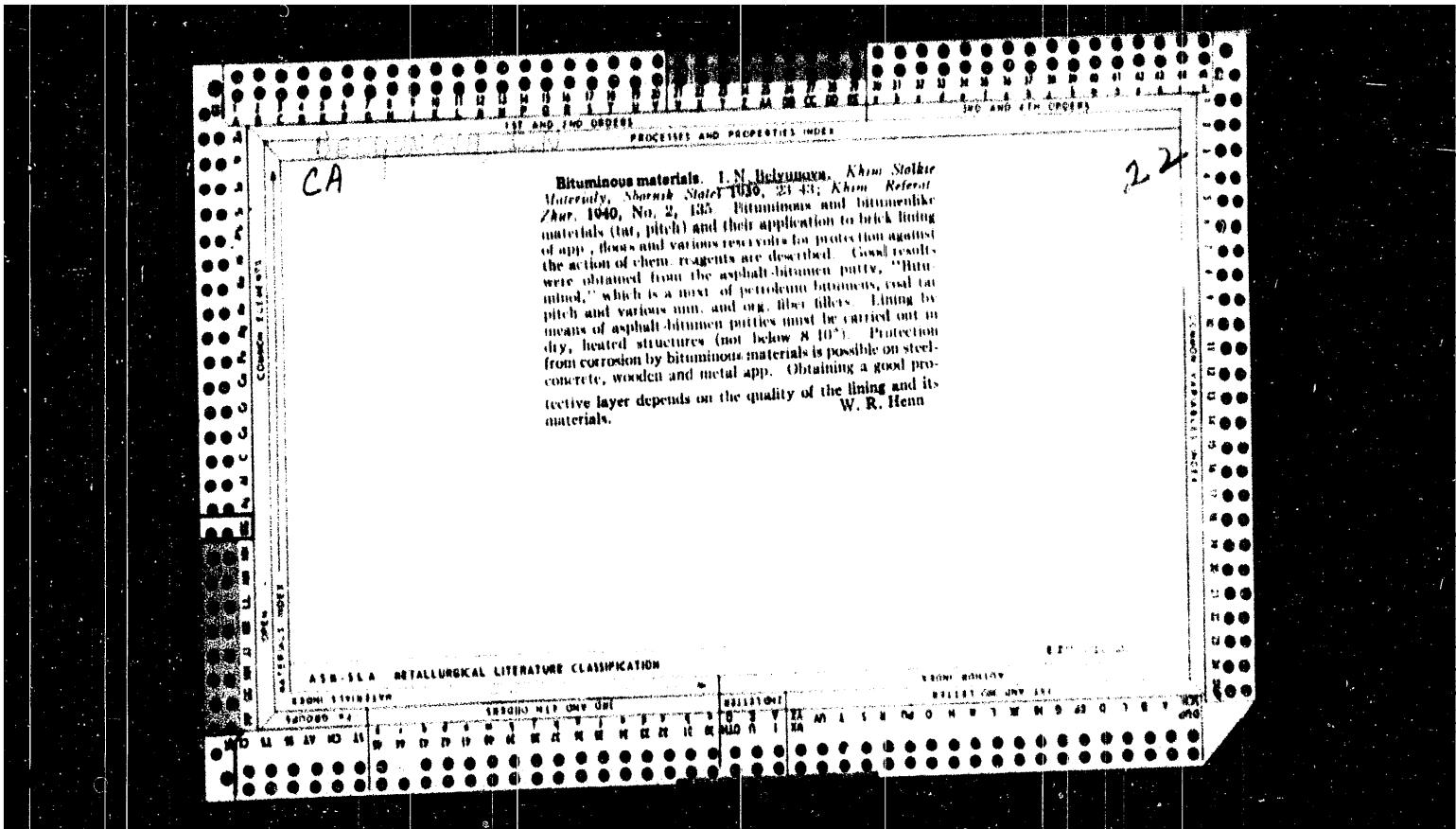
(MIRA 13:6)

. (Gas appliances) ., (Liquefied petroleum gas)

BELYUNOVA, V., inzh.; LITVINA, L., inzh.; SHUMUEL'SON, L., inzh.

Testing of a gas autoclave. Obshchestv.pit. no.5:32-36 My
'62. (MIRA 15:5)
(Autoclaves--Testing)
(Restaurants, lunchrooms, etc.--Equipment and supplies)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204600011-6

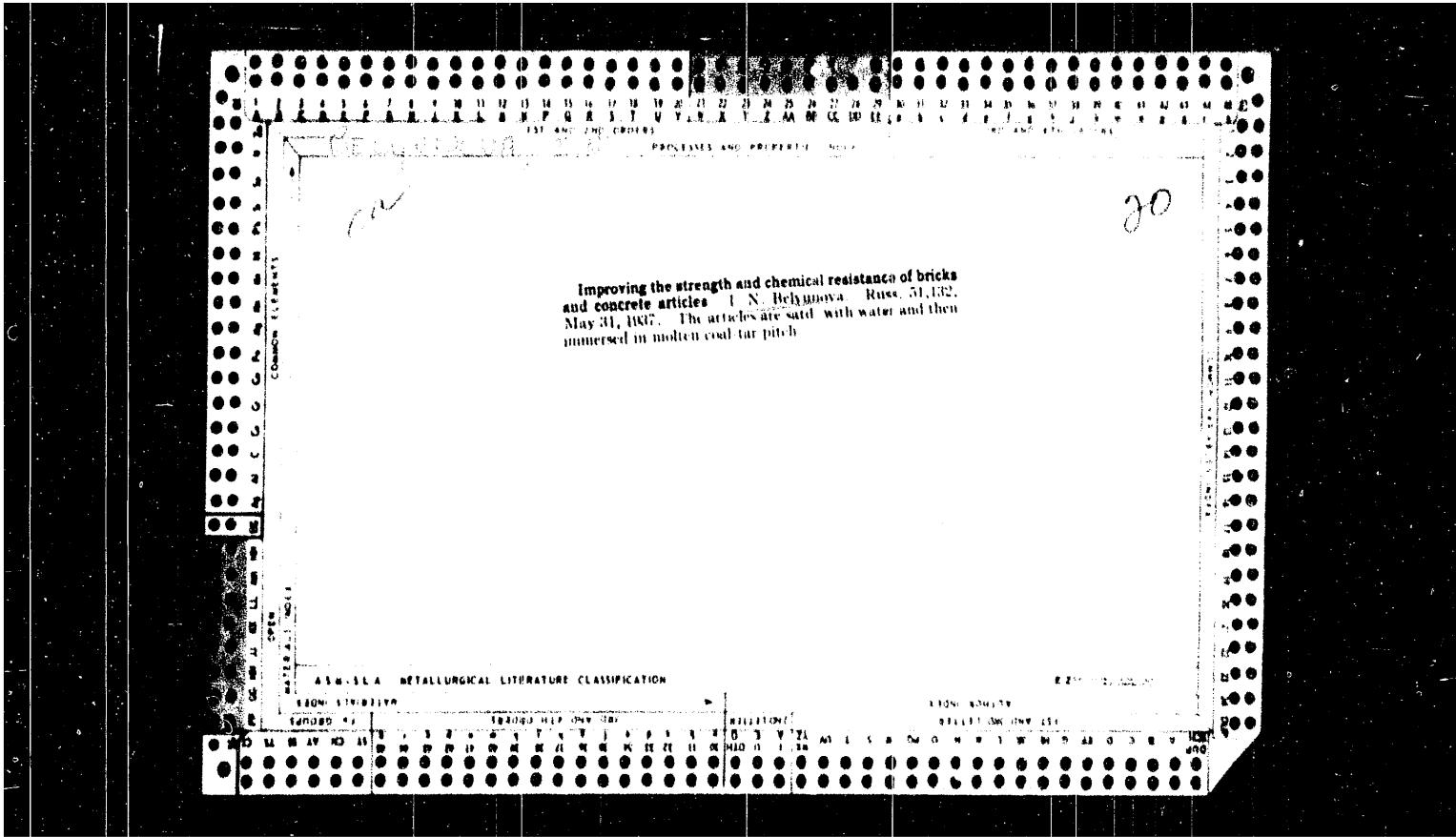


APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204600011-6

Preparation and application of chemically resistant asphalt-bituminous compositions. V. Volodin, I. Belyanina and A. Klimkova. *Org. Chem. Ind. (U. S. S. R.)* 3, 229-33(1937).—A discussion based on some experimental evidence and literature. Chas. Blanc

ASLIB METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204600011-6



BELYUNOV, S.A., inzh.; DMITRIYEV, V.I., dots., kand. ekon. nauk; KUCHURIN, S.F.; LIN'KOV, M.V.; MULYUKIN, F.P.; NEDOPEKIN, G.K., inzh.; PUZYNYA, I.Ye., inzh.; RAYKHER, G.Kh., inzh.; TRUBACHEV, T.Ye., inzh.; TYVAN-CHUK, D.P., inzh.; UMBLIYA, V.E., kand. ekon. nauk; KHOKHLOV, N.F., dots. kand. ekon. nauk; CHUDOV, A.S., prof., doktor ekon. nauk; ERLIKH, V.S., inzh.; IVLIYEV, Ivan Vasil'yevich, red.; KRISHTAL', L.I., red.; KHITROV, P.A., tekhn. red.

[Planning in railroad transportation] Planirovanie na zheleznodorozhnom transporte; spravochnik. Moskva, Vses. izdatel'sko-poligr. ob'edinenie M-va putei soobshchenii, 1961. 470 p. (MIRA 14:11)

(Railroads--Management)

Y [A]
BELIUNOV, S. and BATKIN, R.

Zheleznodorozhnyi transport vo vtorom kvartale 1932 g. /Railroad transport in the second quarter of 1932/. (Sots. transport, 1932, no. 4, p. 11-19).

DLC: HE7.S6

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,
Reference Department, Washington, 1952, Unclassified.

Y
BELZUNOV, S. A.

Itogi desiatiletiiia natsionalizirovannogo vodnogo transporta, ego ruzhdy i perspektivy. [Results of a decade of nationalized inland transportation, its needs and prospects.] (Transport i khoz-vo, 1927, no. 8-9, p. 25-26). DLC: BE7.T68

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,
Reference Department, Washington, 1952, Unclassified.

ACC NR: AT7004328

in the article for $\tau = t$. The final integral formula for $f_w(\tau)$ permits these conclusions: (1) The absolute error of transmission can be determined, and the points of maximum and minimum signal distortion can be indicated; (2) Variation of these values depending on the pass-band value can be explored; (3) The effect of $f(t)$ characteristics on the absolute error of transmission can be established. Orig. art. has: 20 formulas.

SUB CODE: 09 / SUBM DATE: 14Jul66 / ORIG REF: 004

ACC NR: AT7004328

SOURCE CODE: UR/0000/66/000/000/0107/0115

AUTHOR: Belyuchenko, I. M. (L'vov)

ORG: none

TITLE: Signal transmission through ideal low-pass filter

SOURCE: AN UkrSSR. Metody i sredstva preobrazovaniya informatsii (Methods and means of information conversion). Kiev, Naukova dumka, 1966, 107-115

TOPIC TAGS: signal transmission, electric filter

ABSTRACT: The signal at the output of a frequency-selective system is given by:

$f_o(\tau) = \int_0^\tau g(\tau-t)f(t)dt$, where $f(t)$ - input signal, $f_o(t)$ - output signal, $g(t-\tau)$ - impulse transient response of the system. For an ideal low-pass filter:

$g(\tau-t) = \frac{1}{\pi} \cdot \frac{\sin \omega(\tau-t)}{(\tau-t)}$. The present transmission error $|f_o(\tau)-f(t)|$ is determined

Card 1/2

On Determining the Quality of the Metal of Old Steam Boilers (cont.) SOV/137-57-1-153.4

of the specimen investigated should be characterized in accordance with existing standard scales. In order to evaluate the quality of the metallic structure of boiler steel, the author recommends four indexes supplemented by not less than two sharp photographs of the metal specimen investigated.

K. M.

Card 2/2

Translation from: Referativnyy zhurnal. Metallurgiya, 1957, Nrl, p 203 (USSR) SOV/137-57-1-1534

AUTHOR: Belyunas [Bielūnas, K.]

TITLE: On Determining the Quality of the Metal of Old Steam Boilers and a Procedure for Carrying out Metallographic Analysis Therefor (K voprosu opredeleniya kachestva metalla starykh parovykh kotlov i provedeniya metallograficheskogo analiza) in Lithuanian

PERIODICAL: Tr. Kaunassk. politekhn. in-ta 1955, Vol 3, pp 167-180

ABSTRACT: The author investigated the structure, mechanical properties, and chemical composition of the metal of various parts of 286 old steam boilers for the purpose of developing a general procedure for investigating in-service steam boilers. It is recommended that the metallographic investigation of the structure and tests for hardness and a_k be performed by the N. N. Davidenkov method. The author proposes a questionnaire which includes all possible structural elements and defects of boiler steel for the characterization of its macro- and microstructure. The structural elements

BELYUKAS, V.K. [Bieliukas, K.], akademik, red.; ZHELNIN, G.A.,
red.; GUDELIS, V.K., red.; LESIS, I.P. [Liesis, J.],
red.; MAAZIK, V.Ya. [Maasik, V.], red.; OZOL, L.P.
[Ozols, L.], red.; ORVIKU, K.V., red.; RAZHINSKAS, A.K.
[Razinskas, A.], red.; SPRINGIS, K.Ya., red.

[Recent and latest crustal movements in the Baltic region;
materials of the Interrepublic Conference on the Problems
of Recent Tectonic Movements in the Baltic Region for the
2d International Symposium on the Study of Recent Crustal
Movements, Helsinki, 1965] Sovremennye i noveishie dvizheniya
zemnoi kory v Pribaltike; materialy... k II Mezhdunarodnomu simpoziumu po izucheniiu sovremennoykh dvizhenii
zemnoi kory, Khel'sinki, 1965. Pod red. V.K. Gudelisa.
Vilnius, AN Litovskoi SSR, 1964. 139 p. (MIRA 18:1)

1. Mezhrespublikanskove soveshchaniye po voprosam neotektonicheskikh dvizheniy Pribaltiki. 3d, Vilna, 1962. 2. Akademiya nauk Litovskoy SSR (for Belyukas).

GUDONITE, M.[Gudonyte, M.], otv. red.; BELYUKAS, K.[Bielukas, K.]
red.; MESHKAUSKAS, K.[Meskauskas, K.]. red.; YANUSHKYAVICHYUS,V.
[Januskevicius, V.], red.

[Transactions of the Conference on the Problems of the Distribution
of Industry and Urban Development, Vilnius, August 20-23,
1962] Trudy Konferentsii po voprosam razmeshcheniya promyshlennosti i
razvitiya gorodov. Vilnius, AN Litovskoi SSR, 1963. 200 p.
(MIRA 17:4)

1. Konferentsiya po voprosam razmeshcheniya promyshlennosti i
razvitiya gorodov. Vilna, 1962. 2. Institut ekonomiki AN Litov-
skoy SSR (for Meshkauskas).

BELYUKAS, K.K.[Beliukas, K.], akademik, red.; GRIGYALIS, A.A.
[Grigelis, A.], kand. geol.-miner. nauk, red.; GUDELIS,
V.K., kand. geol.-miner. nauk, red.; KISNERYUS, Yu.L.
[Kisnerius, J.], kand. geol.-miner. nauk, red.;
KARATAYUTE-TALIMAA, V.N.[Karatajute-Talimaa, V.], kand.
biol. nauk, red.

[Problems of geology in Lithuania] Voprosy geologii Litvy.
Pod red. A.A. Grigialisa i V.N. Karataiute-Talimaa. Vil'nius,
1963. 623 p.
(MIRA 16:11)

1. Lietuvos TSR Mokslo Akademija, Vilna, Geologijos ir geog-
rafijos institutas. 2. AN Litovskoy SSR (for Belyukas).
(Lithuania--Geology)

BELYUKAS, K.

Brief operation survey of the Geographical Society of the Lithuanian
S.S.R. Izv. Vses. geog. ob-va 93 no.4:371-373 Jl - Ag '61. (MIRA 14:7)
(Lithuania--Geographical societies)

BELYUKAS,K.K., doktor geograficheskikh nauk, redaktor; BULAVAS,Yu.I.,
kandidat istoricheskikh nauk, redaktor; KOMAR,I.V., kandidat
geograficheskikh nauk, redaktor; KONOVALYUK,G.A., redaktor;
GLEYKH,D.A., tekhnicheskiy redaktor

[Lithuanian S.S.R.] Litovskaiia SSR. Moskva, Gos.izd-vo geogr.
lit-ry, 1955. 389 p.
(MLRA 9:3)

1. Deystvitel'nyy chlen AN Litovskoy SSR, (for Belyukas) 2. Chlen-
korrespondent AN Litovskoy SSR, (for Bulavas) 3. Starshyy nauchnyy
sotrudnik Instituta geografii AN SSSR, (for Komar)
(Lithuania--Geography)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204600011-6

BIELIUKAS, K.

BIELIUKAS, K. K.

The lakes of the Lithuanian SSR.

P. 7 (Lietuvos TSR Mokslu akademija. Geologijos ir geografijos institutas.
MOKSLUNIAI PRANFSIMAI. Vol. 1, 1955, Vilnius, Lithuania)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

BELYUKAS, PROF K. K.

USSR/Geophysics - Lakes

Aug 53

"Lakes of the Lithuanian SSR," Prof K. K. Belyukas,
Active Member Acad Sci Lithuanian SSR

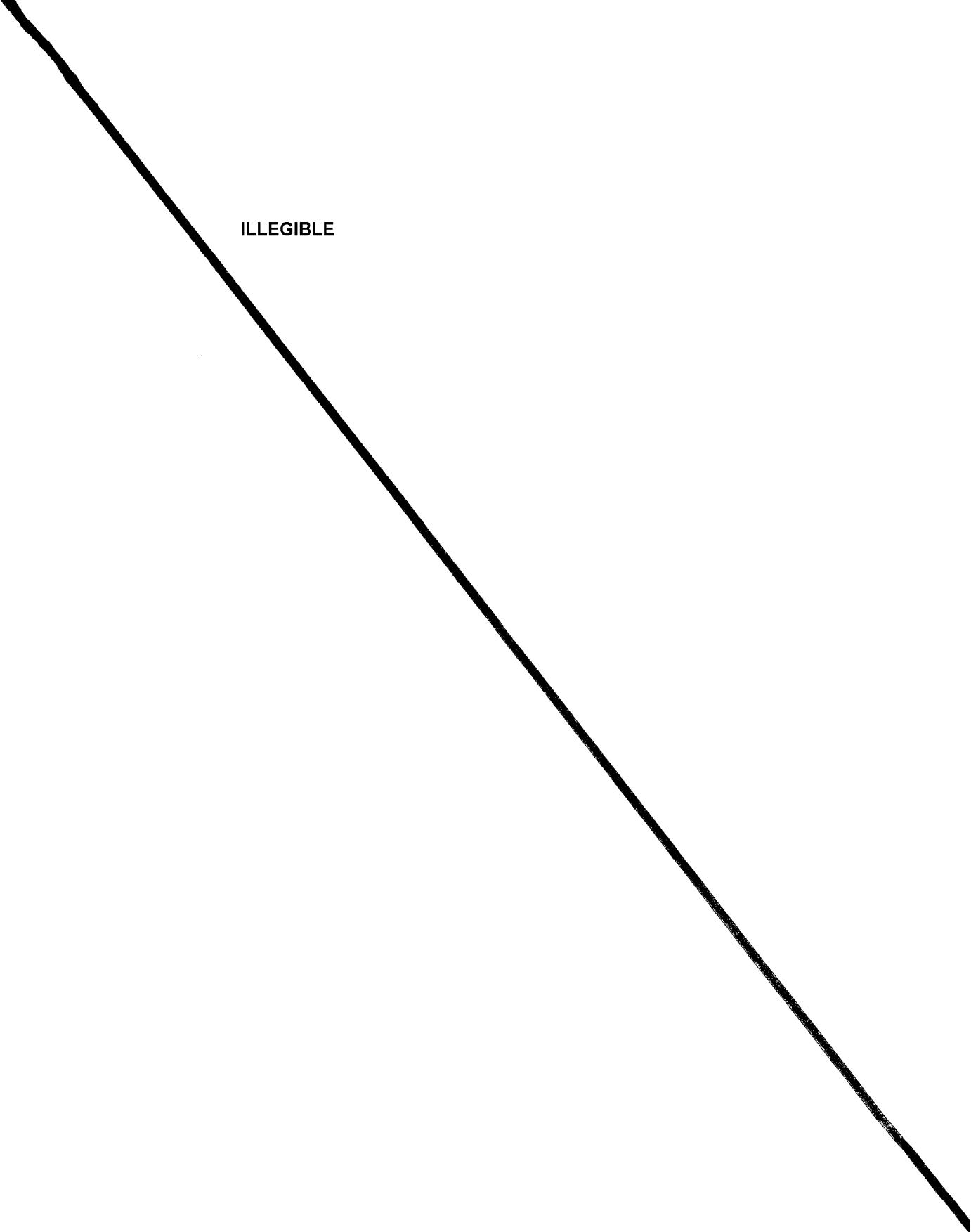
Priroda, No 8, pp 103-105

States that about 4000 lakes occupy more than 93,850
hectares of the total area in Lithuania. Lakes are
being utilized to develop the fishing industry and
in several cases for hydroelectric power stations.

276T62

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ILLEGIBLE



BELYUCHENKO, I.P., inzhener

Mechanized casting mold lubrication. Stal' 15 no.7:660-661
(MIRA 8:9)
J1 '55.

1. "Azovstal'".
(Founding)

BELYUCHENKO, I., aspirant

Protection of legumes in Cuba. Zashch. rast. ot vred.
i bol. 10 no.8:49-50 '65. (MIRA 18:11)

1. Universitet druzhby narodov imeni Patrisa Lumumby.

BELYTSER, V. A.; KHODOROVA, N.L.

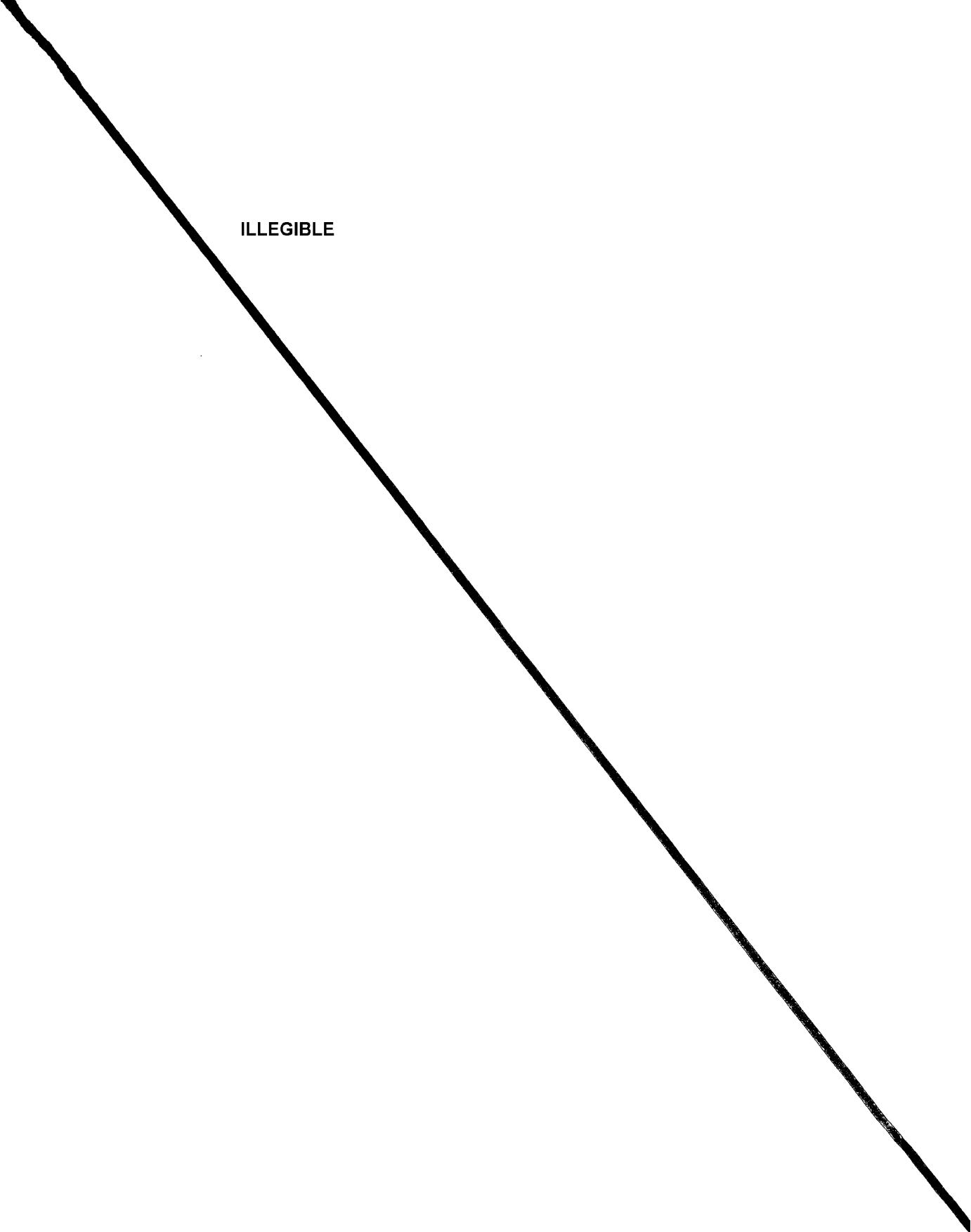
Fermentation

Mechanism of the action of ferens; criticism of P.V. Afanas' hypothesis. Ukr. biokhim. zhur., 22, No. 1, 1950.

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204600011-6

ILLEGIBLE



L 23378-66

ACC NR: AP6007650

biogenous content; 3) this fact strongly supports the view of Treshnikov (1959) and Coachman and Barnes that the surface Arctic waters are largely of Pacific Ocean origin; 4) a considerable water exchange at the 1500 to 2000 m layer apparently exists between the western and eastern depressions of the basin; and 5) the conclusions arrived at indicate the necessity for a different approach to the study of the dynamics and origin of Arctic water masses. Orig. art. has: 4 figures.

SUB CODE: 08/ SUBM DATE: 31Dec64/ ORIG REF: 010/ OTH REF: 003

Card 2/2

L 23378-66 EWT(1) CW

ACC NR: AP6007650 (N) SOURCE CODE: UR/0213/66/006/001/0076/0081

AUTHOR: Nikiforov, Ye. G.; Belysheva, Ye. V.; Blinov, N. I.

ORG: Arctic and Antarctic Scientific Research Institute (Arkticheskiy i Antarkticheskiy nauchno-issledovatel'skiy institut)

TITLE: Structure of water masses in the eastern part of the Arctic basin

SOURCE: Okeanologiya, v. 6, no. 1, 1966, 76-81

TOPIC TAGS: ocean dynamics, sea water, ocean current, ocean property

ABSTRACT: Earlier investigators (Nansen, Shirokov, Shtokman) identified surface, deep, and bottom water masses in the Arctic. However, a study made in 1941 and investigations conducted by Maksimov (1946) Timofeyev (1946, 1951), and others have revealed the presence of an underwater rise impeding water exchange at the bottom water level in the Nansen depression. Tukovich (1955), Treshnikov (1959), and Coachman and Barnes (1961) investigated Arctic water characteristics and established the existence of Pacific Ocean waters in the basin. A study made between 1951 and 1963 showed that 1) the intermediate temperature minimum found at 100 to 150 m water levels in the eastern part of the Arctic basin, and the interlayer are of the Pacific Ocean origin; 2) the composition of the two layers entering the Arctic basin from the Pacific Ocean through the Bering Strait are substantially different in temperature, salinity, and

Card 1/2

ACC NR: AT6028736

the central portion of that sea, the outward spread of the Atlantic water is limited near latitude 80° N by the 0° isotherm and the isooxygen line of 8.60 ml/l. The amount of dissolved oxygen is greater beyond those limits. Oxygen content decreases with depth because of its consumption by oxidizing organic matter. Orig. art. has: 4 figures.

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 004

Card 2/2

ACC NR: AT6028736 (N) SOURCE CODE: UR/3116/66/269/000/0019/0027

AUTHOR: Belysheva, Ye. V. (Candidate of geographical sciences)

ORG: none

TITLE: Some peculiarities in the distribution of dissolved oxygen in the north Greenland Sea in winter

SOURCE: Leningrad. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut. Trudy, v. 269, 1966. Okeanograficheskiye i gidrometeorologicheskiye issledovaniya Ark-ticheskikh morey (Oceanographic and hydrometeorological studies of Arctic Seas), 19-27

TOPIC TAGS: sea water, photosynthesis, oxygen consumption

ABSTRACT: The concentration of oxygen dissolved in the sea water is determined for any point of the sea by the ratio of velocities of its entry and absorption. Upper layers of the sea are enriched by oxygen by direct absorption from the atmosphere and photosynthesis. Deeper layers in the sea receive oxygen exclusively from the circulation of oxygenated waters. The characteristics of the cold, deeper waters in the western parts of the Greenland Sea fluctuate from season to season. From summer to winter, the bottom waters become cooler and their oxygen content increases correspondingly. These changes are conditioned by the vertical exchange with the overlying layer of Atlantic water and by the southward displacement of the deeper waters of the Greenland Sea. In

UDC: 551.464.621(268.2)

Card 1/2

L 09077-67 EWT(1) GW
 ACC NR: AT6028737 (N) SOURCE CODE: UR/3116/66/269/000/0028/0037

AUTHOR: Belysheva, Ye. V. (Candidate of geographical sciences)

b2
b7I

ORG: none

TITLE: Alkali reserve of the Laptev Sea

SOURCE: Leningrad. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut. Trudy, v. 269, 1966. Okeanograficheskiye i gidrometeorologicheskiye issledovaniya Ark-ticheskikh morey (Oceanographic and hydrometeorological studies of Arctic Seas), 28-37

TOPIC TAGS: sea ice, alkali, chlorine

ABSTRACT: The author summarizes the findings of Alekin, Bochkarev and other researchers on the chemical composition--in particular, the alkalinity--of the waters discharging into the Laptev Sea from the Lena, Yana, Anabar, and Khatanga rivers. A table presents data, by month, on the Ca, Mg, Na, K, HCO₃, SO₄, and Cl content of the rivers flowing into the Laptev Sea basin. Data are also presented on the chlorinity and alkalinity of Laptev Sea ice. Maps of alkalinity on the surface and at various depths and in various regions of the Laptev Sea are given. Orig. art. has: 5 tables, 5 figures.

SUB CODE: 08/

SUBM DATE: none/

ORIG REF: 011

UDC: 551.464:543.319(268.52)

b7I
Cord 1/1

PUSHKAREVA, S.A., kand.tekhn.nauk (g. Sverdlovsk); BELYSHEVA, N.A., inzh.
(g. Sverdlovsk)

Effective method for reconditioning the brush holders of traction
motors. Elek. i tepl. tiaga 5 no.3:18-19 Mr '61. (MIRA 14:6)
(Electric railway motors)
(Brushes, Electric)

PUSHKAREVA, S.A., kand.tekhn.nauk; BELYSHIEVA, N.A., inzh.

Using copper plating for restoring brushholder dimensions. Vest.
TSNII MPS 19 no.1:59-60 '60. (MIRA 13:4)

1. Ural'skoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo
instituta zheleznodorozhного transporta Ministerstva putey
soobshcheniya.

(Brushes, Carbon (Electric)--Maintenance and repair)
(Electric locomotives)

Belysheva, N.

RADTSIG, V., kand.tekhn.nauk; BELYSHEVA, N., inzh.

Using ferric sulfate as a coagulant. Zhil.-kom.khoz. 7 no.11:16-18
'57. (MIRA 10:12)

(Water--Purification) (Iron sulfates)

SIDOROV, Yuriy Pavlovich; KOKOREV, Vasiliy Aleksandrovich; BELYSHEV,
Ye.V., retsenzent; CHUGREYEVA, V.N., red.; TRISHINA, L.A.,
tekhn. red.

[The P-105 pneumatic and G-105B hydraulic looms]Pnevmaticheskie
P-105 i gidravlicheskie G-105B tkatskie stanki. Moskva, Rostekh-
izdat, 1962. 85 p. (MIRA 15:12)

(Looms)

BELYSHHEVA, Ye.V.

"Problems in the chemistry of seas"; "Trudy" of the Institute of
Oceanography of the Academy of Sciences of the U.S.S.R., vol.33.
Reviewed by E.V.Belysheva. Okeanologiya 1 no.6:1118-1119 '61.
(MIRA 15:1)
(Sea water--Composition)

BELYSHOV, Ye.V.

Effectiveness of using AT-100-6 looms. Tekst. prom. 20
no. 12:17-18 D '60. (MIRA 13:12)

1. Direktor Pavlovo-Pokrovskoy fabriki.
(Looms)

BELYSHOV, Valentin Nikolayevich; BORISOV, Vitaliy Ivanovich; PROSVIRNIN,
Aleksandr Dmitriyevich; SHNEYDER, Georgiy Konstantinovich; LIPGART,
A.A., prof., red.; AVAKIMOV, G.G., red.izd-va; SHIKIN, S.T., tekhn.
red.

[GAZ-51A motortruck; design, maintenance, and repair] Avtomobil'
GAZ-51A; ustroistvo, obsluzhivanie i remont. Izd. 2., ispr. i dop.
Pod obshchey red. A.A.Lipgarta. Moskva, Gos.sauchno-tekhn.izd-vo
mashinostroit. lit-ry, 1958. 515 p. (MIRA 11:7)
(Motortrucks)

J

BELYSHEV, V.N.

(Automobile of the Gor'kov Automobile factory, model-51; construction, maintenance and repair) Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1952. 487 p. (53-12817)

TL215.G2A5

1. Motor -trucks. I. Belyshev, V.N.

ROZHOK, I., podpolkovnik; BELYSHEV, V., kapitan

Competitions for signalmen by correspondence. Voen. vest. 41
no. 5:107-108 My '61. (MIRA 14:8)
(Communications, Military--Study and teaching)

BELYSHEV, P.V.

Basic directions in developments in equipment and techniques
in the textile industry during the present seven-year plan.
Izv.vys.ucheb.zav.; tekhn.tekst.prom. no.1:3-8 '60.
(MIRA 13:6)

1. Ivanovskiy tekstil'nyy institut.
(Textile industry)

BELYSHOV, P.V.; USOV, G.V.; SOLOV'YEV, M.K. [deceased]; LEBEDEV, N.D.;
LEVIN, V.F.; PEVZNER, M.L.; USOV, A.M.; ZOLKIN, I.D.; KONCHOV,
N.A.; IVANOV, P.P., red.; PANERATOV, A.I., tekhn. red.

[Economics of a textile enterprise; for the aid of studying applied
economics] Ekonomika tekstil'nogo predpriatiia; v pomeshch' isu-
chaiushchim konkretnuiu ekonomiku. Ivanovo, Ivanovskoe knishncoe ind-
vo, 1960. 359 p.

(MIRA 14:7)

(Textile industry)

BELYSHOV, P.V., kandidat tekhnicheskikh nauk, dotsent.

Effect of relative humidity of the air on breakages of staple
yarn. Tekst.prom. no.3:42-44 Mr '56. (MLRA 9:6)
(Humidity) (Yarn)

HELYSHEV, P.V., kandidat tekhnicheskikh nauk.

Introducing high-speed warp yarn winding. Tekst.prom.15 no.3:20-21
Mr '55. (MIRA 8:4)
(Weaving)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204600011-6

BELYSHEV, P.V.

"High-speed unreeling of yarn"
Tekst. prom. 12, no. 6, 1952

ACC NR: AT6035090

had been investigated prior to setting up the stations, and the optimal locations had been selected. A detailed description of the procedure for placing and removing the recorder-carrying stations is given, and the process is illustrated. It was established that none of the anchored stations was subject to drifting during the experimental work. Orig. art. has: 2 figures and 4 equations.

SUB CODE: 08/ SUBM DATE: none

Card 2/2

ACC NR: AT6035090

SOURCE CODE: UR/3UYD/06/035/000/UUU/UUU

AUTHORS: Belyshov, I. I.; Grigor'yev, G. N.

ORG: none

TITLE: Method for setting up autonomous anchored stations during the fourteenth trip of the scientific research ship "Mikhail Lomonosov"

SOURCE: AN UkrSSR. Morskoy gidrofizicheskiy institut. Trudy, v. 35, 1966.
Gidrofizicheskiye i hidrokhimicheskiye issledovaniya tropicheskoy zony Atlantiki
(Hydrophysical and hydrochemical research in the tropical zone of the Atlantic), III-
115

TOPIC TAGS: ocean current, sea water, recording equipment, ocean floor topography /
BPV-2 recording equipment

ABSTRACT: A method for setting up anchored stations carrying self-recording equipment of the type BPV-2 for the study of currents in the tropical region of the Atlantic Ocean is described. Altogether, 15 anchored stations were placed and removed during the 14th trip of the scientific research ship "Mikhail Lomonosov" for investigating the configuration of the Brazilian and Lomonosov currents. The stations were placed at depths of 3000--5000 m. The buoyancy and dynamic stresses have been calculated for the specific conditions, taking into consideration the current velocity, water density, and strength of the materials used. The topography of the sea bottom

Card 1/2

BELYSHEV, I.I., fel'dsher (Shakhta Kamenskoy oblasti)

Group irradiation of miners by ultraviolet rays. Fel'd. 1 akush. 21
no.9:37 S '56. (MLRA 9:10)

(MINERS--DISEASES AND HYGIENE)
(ULTRAVIOLET RAYS--THERAPEUTIC USE)

BELYSHOV, B.P.

Oil and gas formation in the lower Carboniferous in the Veslyanskiy
swell. Geol. nefti i gaza 9 no.8:31-35 Ag '65.
(MIRA 18:8)

1. Permnefterazvedka.

BELYSHEV, B.F.

Morphogenetic territories in the northern Palaearctic. Izv.
Alt. otd. Geog. ob-va SSSR no. 5:145-147 1955. (MKA 18:12)

1. Biologicheskiy institut Vostochno-Sibirs'kogo otdeleniya
AN SSSR.

BELYSHOV, B.E.

Phenology of the flight of arthropods (Diptera, Coleoptera) in
Siberia beyond the Arctic Circle and general characteristics
of this phenomenon in northern paleoarctic regions. (voprosy iissledovaniya)
zhar. 44 no. 7:1614-1617 '65.

1. Vostochnosibiriiskiy biologicheskii institut pri vsesoyuznom
otdelenii AN SSSR, Irkutsk.

BELYSHOV, B.F.

New genera and species of dragonflies (Odonata, Insecta) in
the U.S.S.R. from the Far East. Zool. zhur., 44 no.4:611-613
'65. (MIRA 18:6)

1. Vostochnosibirskiy biologicheskiy institut Sibirskogo otdeleniya
AN SSSR, Irkutsk.

BREVIA, R.S.

1. The nature of negotiations between the United States and the
Soviet Union and some problems of propaganda in
the spreading information of Soviet Union about the Sino-Soviet
friendship and the Sino-Soviet War. (See (281))

2. Non-nuclear military technology developed by the United States
and the Soviet Union.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204600011-6

BELYCHEV, B.F.; DUL'KEYT, G.D.

Odonatological fauna of the eastern Altai. Trudy Vost. -Sib. fil.
AN SSSR no.40:81-97 '64. (MIRA 17:4)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204600011-6

BELYSHOV, B.F.

Odonatological fauna of the upper Ob' Valley. Trudy Vost. -Sib.
fil. AN SSSR no.40:4-70 '64. (MIRA 17:4)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204600011-6

BELYSHEV, B.F.; KURENTSOV, A.I.

Study of dragonflies (Odonata)-in the Amur Valley. Trudy Vost.
-Sib. fil. AN SSSR no.40:71-80 '64. (MIRA 17:4)

BELYSHOV, B.F.

Basic problems of interrelations between the dragonflies (Odonata, Insecta) of Siberia and America within the Palaearctic area. Izv. SO AN SSSR no.12. Ser. biol.-med. nauk no.3:66-75 '63.

(MIRA 17:4)

1. Vostochno-Sibirskiy biologicheskiy institut Sibirskogo otdeleniya AN SSSR, Irkutsk.

BELYSHOV, B.F.

Structure and history of the formation of insular and peninsular
odonatological faunas of northeastern Asia. Zool. zhur. 42
no.11:1638-1645 '63. (MIRA 17:2)

1. East Siberian Biological Institute, Siberian Branch of the
Academy of Sciences of U.S.S.R., Irkutsk.

BELYSHOV, Boris Fedorovich; KOZHOV, M.M., doktor biol. nauk, otv. red.; KRICHESKAYA, F.I., red. izd-va; GALIGANOVA, L.M., tekhn. red.

[A guide to the dragonflies of Siberia based on imaginal and larval phases] Opredelitel' strekoz Sibiri po imaginal'nym i lichinochnym fazam. Moskva, Izd-vo Akad. nauk SSSR, 1963. 112 p. (MIRA 16:7)
(Siberia--Dragonflies)
(Siberia--Insects--Development)

BELYSHEV, B.F.

Range of the Palaearctic region in the New World based on the
distribution of Odonata. Zool. zhur. 41 no. 11:1743-1746 N '62.
(MIRA 16:1)

(North America--Dragonflies)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204600011-6

BELYSHOV, B.F. (Irkutsk); OVODOV, N. (Irkutsk)

Somatochlora sahlbergi Trybom (Odonata, Insecta) in southern Siberia.
Zool. zhur. 40 no.12:1892-1893 D '61. (MIRA 15:3)
(Baikal Lake region--Dragonflies)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204600011-6

BELYshev, E.F.

The boundary of Palaearctic Asia on basis of the distribution of
Odonata. Annales zool 19 no.12:437-453 N '61.

BELYSHEV, B.F.

Vertical limits of dragonfly distribution in the Altai Mountains.
Zool.zhur. 40 no.7:1103-1104 Jl '61. (MIRA 14:7)
(Altai Mountains—Dragonflies)

BELYSHEV, B.F.

Zoogeography of the upper Ob' Valley based on the distribution of
dragonflies (Odonata, Insecta). Izv.Sib.otd.AN SSSR no.8:93-104
'61. (MIRA 14:8)

1. Vostochno-Sibirskiy filial Sibirskogo otdeleniya AN SSSR,
Irkutsk.
(Ob' Valley--Dragonflies)

HELYSHEV, B.F.

Utilization of other animals for locomotive purposes within the
body of water by the mollusk *Sphaerium cornutum* L. Kraeved.
Sbor. no. 6:97-98 '61. (MIRA 15:2)
(Mollusks—Behavior)

BELYSHOV, B.F.

Conditions governing the existence of larvae of the dragonfly Orthetrum albistylum Selys in a hot spring of the Baikal region. Zool. zhur.
39 no.9:1432-1433 S '60. (MIRA 13:9)
(Baikal Region--Dragonflies)

BELYSHOV, B.F.

Phenology of the flight of dragonflies (Odonata) in steppes
of the Altai Mountain region and some general features of this
phenomenon. Ent. oboz. 39 no.2:395-403 '60. (MIRA 13:9)

1. Vostochno-Sibirskiy filial Sibirskego otdeleniya Akademii
nauk SSSR, Irkutsk.

(Altai Mountain region--Dragonflies) (Phenology)

BELYSHOV, B.F.

Principal subdivisions of the Palaearctic region on the basis
of the distribution of dragonflies (Insecta, Odonata). Izv.
Sib. otd. AN SSSR no. 10:94-102 '60. (MIRA 13:12)

1. Vostochno-Sibirskiy filial Sibirskogo otdeleniya AN SSSR.
(Dragonflies) (Zoogeography)

BELYSHOV, B.F.

Forest-steppe relicts in the bird fauna of the Marym taiga.
Trudy Probl. i tem. sov. no.9:108-111 '60, (MIRA 13:9)

1. Altayskiy gosudarstvennyy zapovednik.
(Marym region--Birds)

BELYSHEV
BELYSHEV, B.; DOSHIDORDZHI, A.

Dragonflies (Odonata) of Mongolia [with summary in English]. Zool.
zhur. 37 no.1:34-40 Ja '58. (MIRA 11:2)

1. Mongol'skiy gosudarstvennyy universitet, Ulan-Bator.
(Mongolia--Dragonflies)

USSR/General and Systematic Zoology. Insects. Systematics and P
Faunistics

Abs Jour : Ref Zhur - Biol., No 3, 1959, No 11448

Author : Belyshev B.E., Shevchenko V.V.

Inst : Institute of Zoology AS KazSSR

Title : Fauna of the Dragonflies (Odonata) in Talas Altai and
Karatay (Western Tyan-Shan').

Orig Pub : Tr. In-ta zool. AN KazSSR, 1958, 8, 222-223

Abstract : An inventory of 21 dragonfly species and data on places and
time of collection.

Card : 1/1

HELYSHEV, B.F.

Two findings of fossil rodents in Western Siberia. Mat. po ist.
fauny i flory Kazakh. 2:82-83 '58. (MIRA 11:7)
(Tara Valley--Jerboas, Fossil) (Anuy Valley--Beavers, Fossil)

DRYDEN, W.H., Com. Dir. S.A. (M-1 "D") - P.M. 100-100-100
"S.A.", 1957. 11-12 (Min. of Higher Education, M.R. Dept. State U.S.-U.S.
Russia); 1958-1960 (Min. of Higher Education, M.R. Dept. State U.S.-U.S.
(U.S.S.R., 1958, 1961)

Obregon.

BELYSHOV, B.F.

"Dragonflies of the Latvian S.S.R." by Z.D. Spuris. Reviewed by
B.F. Belyshev. Zool. zhur., 36 no. 6:957 Je '57. (MLRA 10:8)
(Latvia--Dragonflies)
(Spuris, Z.D.)

BELYSHOV, B.P.

Dwarf form of *Lestes uncatus* Kirby (Odonata, Lestidae) from the hot
springs of northern Transbaikalia. Ent. oboz. 36 no. 1:161-162 '57.

(MLRA 10:4)

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Author : Bolyschew, B. F.

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Title : The Larvae of Agrion hylas Trybom. (Odonata,
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Abs Jour : Ref Zhur - Biol., No 6, 1958, No 25581

isolated areas were enumerated. In the study of the area-shapes two basic types were made apparent: ribbon-like and rounded. The ribbon-like areas were endemic to the north; the rounded areas, 50% of the total number, were mostly endemic to Eastern Asia; they were remnants of wider areas. V-shaped areas were transitional; less numerically than the other areas (7%), they were characteristic of western P. The shape of 25.8% of areas was indistinct; these were the areas which enclosed the Paleoarctic only in part.

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